

Claims

- 1 Rubber mixtures containing one or more hydroxyl-group-containing rubbers  
built up from diolefins, characterised in that the hydroxyl group-containing  
5 rubber(s) contain in the range 0.1 to 2 wt.% of bonded primary hydroxyl  
groups and have a glass transition temperature between -120 and -50°C.
2. Rubber mixtures according to Claim 1, characterised in that 1,3-butadiene  
and/or isoprene are used as diolefins.
- 10 3. Rubber mixtures according to Claim 1, characterised in that the cis-1,4 con-  
tent of the hydroxyl group-containing rubber, which is polymerised in solu-  
tion, is greater than 30 %.
- 15 4. Rubber mixtures according to Claim 1, characterised in that they contain, in  
addition to the hydroxyl group-containing rubber with a glass transition tem-  
perature between -120° and -50°C, additional rubbers chosen from the group  
comprising natural rubber, polyisoprene and styrene/butadiene copolymers  
with styrene contents between 10 and 50 wt.%, in an amount of 0,5 to 95  
20 wt.%, preferably 40 to 90 wt.%, with respect to the entire amount of rubber in  
the rubber mixture.
5. A process for preparing rubber mixtures according to Claim 1, characterised  
in that one or more fillers are added to the solution of hydroxyl group-con-  
25 taining rubber(s) in amounts in the range 0.5 to 500 parts by wt. with respect  
to 100 parts by wt. of rubber, and optionally further auxiliary substances for  
processing and/or further working-up and/or stabilisation purposes are added  
and then the solvent is removed.
- 30 6. A process according to Claim 5, characterised in that the solvent is removed  
with the assistance of steam.

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7. Use of rubber mixtures according to Claim 1 for producing moulded items of all types, preferably for producing tires, in particular tire treads and tire side-walls.

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